

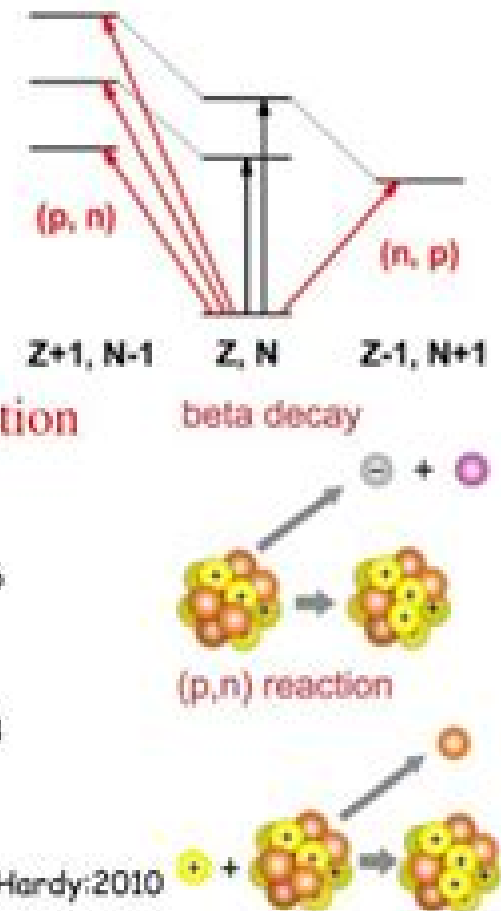
# Nuclear spin-isospin excitations

## Nuclear spin-isospin excitations

- $\beta$ -decays in nature
- charge-exchange reactions in lab

## These excitations are important to understand

- spin and isospin properties of in-medium nuclear interaction
- effective nucleon-nucleon tensor forces Bai:2010
- neutron skin thickness Kraussnerkay:1999, Vretenar:2003, Yako:2006
- $\beta$ -decay rates of  $r$ -process nuclei Engel:1999, Borzov:2006
- neutrino-nucleus cross sections Kolbe:2003, Vogel:2006, Paar:2008
- $\beta\beta$ -decay rates Ejiri:2000, Avignone:2008
- unitarity of Cabibbo-Kobayashi-Maskawa matrix Towner&Hardy:2010



The theories achieving consistent treatment of the spin and isospin degrees of freedom are highly desired.

# Spin Excitations In Nuclei

**Aldo Covello**



## Spin Excitations In Nuclei:

*Spin Excitations in Nuclei* Fred Petrovich, 2012-12-06 This volume contains the proceedings of the International Conference on Spin Excitations in Nuclei held in Telluride Colorado March 25-27 1982 The motivation for the conference was in a large part due to the recent development of new variable energy accelerators which produce high quality beams of electrons protons and pions that are providing the first precise information on spin excitations in nuclei over a large range of spin and mass In the past such data had been restricted primarily to light nuclei and were generally resolution limited Perhaps the most exciting new result has been the clear observation of the elusive spin dipole strength Gamow Teller and M1 in medium and heavy mass nuclei through the use of the  $p, n$  and  $p, p$  reactions at or near zero degrees with 100-200 MeV incident protons Energy dependence in the isovector parts of the nucleon-nucleon interaction make the 100-200 MeV energy region particularly appropriate for such studies The clean data from  $e, e$ ,  $IT, IT$ ,  $p, p$  and  $p, n$  on high spin stretched states which have particularly simple structure has also been quite important The recent results contain important new information on the nature of the spin dependent forces in nuclei These in turn are inherently related to the properties of the nuclear mesonic field and the underlying quantum chromodynamics

**Spin Excitation in Nuclei**, 1984 **Spin excitations in nuclei** C. (Niels Bohr Institutet) Gaarde, 1990 **Spins in Nuclear and Hadronic Reactions** Hiroyuki Yabu, Toru Suzuki, H. Toki, 2000 Spin physics is one of the most important and active areas of theoretical experimental nuclear physics In nuclear reactions the observations of spin polarizations give important clues to the nuclear structures and reaction mechanism For high energy nuclear physics the polarized quark parton distributions of the nucleon nucleus are studied intensively In the study of baryon structures and nuclear astrophysics spin is an important observable through hadron reactions The focus of these proceedings is on the spin dependent phenomena in nuclear and hadronic reactions and related topics in nuclear and hadron physics The main subjects covered are Spin polarization phenomena in nuclear and hadronic reactions spin dependent excitations in nuclei and spin observables recent development in nuclear reaction theories spin dependent phenomena in fundamental processes related topics

Energy Research Abstracts, 1993 **Nuclear Structure and Heavy-Ion Dynamics** L. Moretto, R.A. Ricci, 1984-01-01 Nuclear Structure and Heavy Ion Dynamics **Exotic Nuclear Excitations** S.C. Pancholi, 2011-03-23 By providing the reader with a foundational background in high spin nuclear structure physics and exploring exciting current discoveries in the field this book presents new phenomena in a clear and compelling way The quest for achieving the highest spin states has resulted in some remarkable successes which this monograph will address in comprehensive detail The text covers an array of pertinent subject matter including the rotational alignment and bandcrossings magnetic rotation triaxial strong deformation and wobbling motion and chirality in nuclei This book offers a clearly written and up to date treatment of the topics covered The prerequisites for a proper appreciation are courses in nuclear physics and nuclear models and measurement techniques of observables like gamma ray energies intensities multi

fold coincidences angular correlations or distributions linear polarization internal conversion coefficients short lifetime pico second range of excited states etc and instrumentation and data analysis methods

**Oscillations in Finite Quantum Systems** George F. Bertsch, R. A. Broglia, 1994-04-21 Appendix A Mean field theory

**International Conference on Nuclear Structure** A. Van Der Woude, B. J. Verhaar, 2016-06-03 International Conference on Nuclear Structure presents the status of research in nuclear structure This book covers the more traditional topics including giant resonances high spin states current and momentum distributions in nuclei and single particle and collective excitations at low excitation energy Organized into eight sessions this book begins with an overview of the experiments with low momentum antiprotons This text then examines the interaction between two free nucleons which can be described by their scattering matrix by their scattering cross sections or by relativistic or nonrelativistic potentials Other sessions consider the results on neutron hole states in the Zr Sn and Pb region from  $\mu$  measurements This book discusses as well the progress in the investigation of high spin magnetic observables in medium and heavy nuclei The final chapter deals with the methods of performing measurements of neutrino masses This book is a valuable resource for nuclear physicists scientists and research workers

**Medium And High Energy Nuclear Physics - Proceedings Of The Conference** M K Pal, B B Baliga, J N De, K Kar, D Bhaumik, 1992-12-10 This volume gives a detailed account of the current trends in the interface areas of medium and high energy nuclear physics Special stress is given to topics like chiral models relativistic models hot nuclei quark gluon plasma and other reactions with non nucleonic degrees of freedom The articles present the state of the art research in these areas and also suggest unsolved problems which will form the main thrust of future research work in nuclear physics

*Lampf Users Group Inc. (Lugi) Symposium: 20 Years Of Meson Factory Physics: Accomplishments And Prospects* Benjamin F Gibson, Cyrus M Hoffman, Peter D Barnes, Vernon W Hughes, 1997-10-22 This book reviews the major physics results from the meson factories surveys the status of the relevant fields including pion physics hadron physics and electroweak physics and explores prospects for further progress

*Publications of Los Alamos Research* Los Alamos National Laboratory, 1985

**Challenges Of Nuclear Structure, Procs Of The 7th Intl Spring Seminar On Nuclear Physics** Aldo Covello, 2002-04-18 This volume is devoted to recent achievements and new challenges in the field of nuclear structure Both experimental and theoretical issues in the forefront of current research on the subject are covered by leading physicists

**New Vistas in Electro-Nuclear Physics** Edward L. Tomusiak, Henry S. Caplan, Edward T. Dressler, 2013-11-11 The NATO Advanced Study Institute New Vistas in Electro Nuclear Physics was held in Banff Alberta Canada from August 22 to September 4 1985 This volume contains the lecture notes from that Institute The idea to organize this Institute coincided with the award of funding for a pulse stretcher ring at the University of Saskatchewan's Linear Accelerator Laboratory This together with the high level of interest in electron accelerators worldwide convinced us that it was an appropriate time to discuss the physics to be learned with such machines In particular that physics which requires high energy and or high duty cycle accelerators for its extraction was

intended to be the focus of the Institute Thus the scope of the lectures was wide with topics ranging from the structure of the trinucleons to quark models of nucleons QCD and QHD The theme however was that we are just trying to understand the nucleus and that the electromagnetic probe can serve as a powerful tool in such a quest **Nuclear Science Abstracts**

,1976 *Challenges of Nuclear Structure* Aldo Covello,2002 This volume is devoted to recent achievements and new challenges in the field of nuclear structure Both experimental and theoretical issues in the forefront of current research on the subject are covered by leading physicists **NMR-MRI,  $\mu$ SR and Mössbauer Spectroscopies in Molecular**

**Magnets** Pietro Carretta,Alessandro Lascialfari,2007-12-15 In this book an extensive overview on the results obtained during the last decade and on recent achievements in the study of molecular magnets by means of Nuclear Magnetic Resonance Muon Spin Rotation Magnetic Resonance Imaging and Mossbauer techniques is presented The aim is to introduce the reader to these techniques and to give a general background on their application to molecular spin systems [The Physics](#)

[Associated with Neutrino Masses](#) Diego Aristizabal Sierra, Frank Franz Deppisch, Alexander Merle,2020-01-13 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office [frontiersin.org/about/contact](mailto:frontiersin.org/about/contact)

**Understanding The Variety Of Nuclear Excitations - Proceedings Of The 3rd International Spring Seminar On Nuclear Physics** Aldo Covello,1991-03-15 The primary emphasis of the Seminar is on the modes of excitation in both spherical and deformed nuclei Several topics at the forefront of current research in nuclear structure are covered by leading physicists The main themes are Single particle and Collective Degrees of Freedom in Low energy Modes of Excitation The Nature of High spin States in Deformed and Spherical Nuclei and The Role of Giant Resonances in Nuclear Structure

**Field Theory And Collective Phenomena** S De Lillo, P Sodano, Faqir C Khanna, Gordon W Semenoff,1995-12-21 This volume is dedicated to Prof Hiroomi Umezawa to honour of his retirement from the Killam Memorial Chair of Theoretical Physics at the University of Alberta It is intended to summarize the contents of a Conference held at Perugia from May 28 to May 31 1992 aimed at bringing together researchers whose activity has been in close touch with the many topics addressed by Prof Umezawa in his long scientific career This book is a collection of invited papers on Field Theory and its many applications to describe collective properties of physical systems The topics range from Condensed Matter Physics to General Relativity It contains review papers by leading experts on Finite Temperature Field Theory Nonequilibrium Field Theory Gauge Theories General Relativity Nonlinear Equations and Complex Systems The conference occurred at a time of searching for new ways to use the unifying views of modern field theory to provide explanatory paradigms for a wide variety

of phenomena The book is a timely effort in this direction The contents of the book will be appreciated by a readership fascinated by both the versatility and the rigorous structure of Quantum Field Theory

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